

**From:** [Jeff Willis CRMC](#)  
**To:** [Kevin Sloan](#); [David Ciocchetto](#); [Justin Skenyon](#)  
**Subject:** Fwd: Revolution Study Proposal  
**Date:** Wednesday, April 19, 2023 7:06:52 PM

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Thanks,  
Jeff

Begin forwarded message:

**From:** todd guilfoos <todd.guilfoos@gmail.com>  
**Date:** April 19, 2023 at 6:39:01 PM EDT  
**To:** Kellen Ingalls <KELIN@orsted.com>, Marisa Desautel <marisa@desautelesq.com>, Kerin Browning <kerin@desautelesq.com>, Di Jin <djin@whoi.edu>, Hauke L Kite-Powell <hauke@whoi.edu>, Jeff Willis <jwillis@crmc.ri.gov>, Michael J Weir <mweir@whoi.edu>  
**Subject: Revolution Study Proposal**

Below is the proposal for the study in principle. I have comments from DEM and WHOI- note I only rejected the edit to the discount rate from Di Jin as I feel strongly about using a 4% discount rate.

Todd

Details on the study design:

RI DEM will oversee the study with collaboration of NOAA and an academic collaborator. Funding will be through RI DEM paid by the developer. The stated goal of the study will be to quantify the impact of the wind farm on commercial fishing from the Revolution Wind Farm operations.

Data: Use historical and 5 years of post construction data. Will use AIS and VMS data where available. One stage of the study will be to supplement missing data through using indicator species modeling or gathering data from industry pre-construction. The spatial extent will be based on the main locations fished by RI and MA commercial fishing for lobster and jonah, and trawler gear type. It is expected that multiple wind farms be included in the spatial extent and control areas where no wind farms are in operations. A more regional approach should increase coverage of VMS data available. The wind farm level impact will consider fishing activities within the wind farm plus a buffer area. Utilize data sources such as Communities at Sea <https://www.northeastoceandata.org/> to help define spatial extent.

Other Guidelines: Suggest use of a location choice modeling approach, or justification

for another approach.

Known Challenges and Confounders: Changes in regulations, stock status, tag limits, etc.

Output: Using 4% discount rate in the agreement the study will calculate the PV impacts of operations to commercial fisheries in RI from the Revolution Wind Farm. Use the same onshore multipliers used in the mitigation values from WHOI report. The expected life of the wind farm is 30 years after construction. Decommissioning is not included in this assessment.

Rough Project Timeline:

2023-2024 -One year to reexamine the historical data in combination with newly acquired data to increase the accuracy of the baseline data before construction, focused on the lobster and crab fishery.

2030-2031- 18 months to analyse post construction data and model impacts to commercial fishing from operations and consider the above-mentioned identification issues.

Resources Needed: Student for baseline work and first year study. Likely a Postdoc at RI DEM for the second phase of the study. Time for Julia and collaborators. ~300k (Will update this number based on discussions).

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Todd